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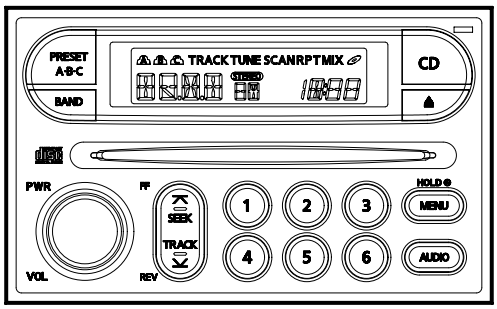
Service Manual



NISSAN Automobile Genuine
AM/FM Radio CD Player

Model PP-2449V-B
(Genuine No. 28185 7S400)
(ID No. CY660)

Model PP-2449V-C
(Genuine No. 28185 7S200)
(ID No. CY640)

SPECIFICATIONS

Radio section

Tuning system:	PLL frequency synthesizer system	
Receive range:	AM	530kHz to 1,710kHz
	FM	87.9MHz to 107.9MHz
Intermediate frequency:		
	AM	450kHz
	FM	10.7MHz
Quieting sensitivity:		
	AM	Less than 38dBu (PP-2449V-B)
		Less than 32dBu (PP-2449V-C)
	FM	Less than 15dBu (PP-2449V-B)
		Less than 11dBu (PP-2449V-C)
Separation:	FM	22dB +5/-7dB(1kHz)
Auto tuning stop sensitivity(DX):		
	AM	42dBu +6/-6dBu(600kHz)
		39dBu +6/-6dBu (1000Hz,1400Hz) (PP-2449V-B)
		32dBu +6/-6dBu (PP-2449V-C)
	FM	32dBu +6/-6dBu (PP-2449V-B)
		25dBu +6/-6dBu (PP-2449V-C)

CD section

Disc:	12cm,8cm Disc
Separation:	More than 50dB
S/N ratio:	More than 74dB

AUX section

Front Gain:	17dB +3/-3dB(PP-2449V-B) 21dB +3/-3dB(PP-2449V-C) at AUX input 1kHz,245mV,VOL max.
Rear Gain:	16dB +3/-3dB(PP-2449V-B) 16.5dB +3/-3dB(PP-2449V-C) at AUX input 10kHz,245mV,VOL max.

General

Load impedance:	2 ohm
Power output:	25W x 4
Power supply voltage:	DC13.2V(10.8V to 15.6V) Negative ground
Back-up consumption:	Less than 3mA
Dimensions(mm):	180(W) x 108(H) x 160(D)
Weight:	Approx. 1.9kg

* Specifications and design are subject to change without notice for further improvement.

COMPONENTS

PP-2449V-B,V-C

Main unit	----------	1

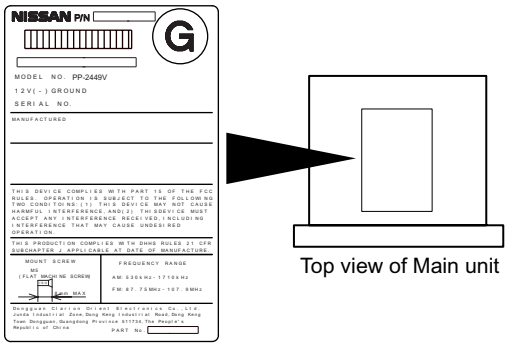
NOTE

We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

CAUTIONS

Use of controls,adjustment,or performance of procedures other than those specified herein,may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.



Top view of Main unit

DIFFERENCE FEATURE LIST

	PP-2449V-B	PP-2449V-C
ORIGINAL EQ	YES	YES
FM DIVERSITY	YES	NO
GLASS ANTENNA	YES	NO

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

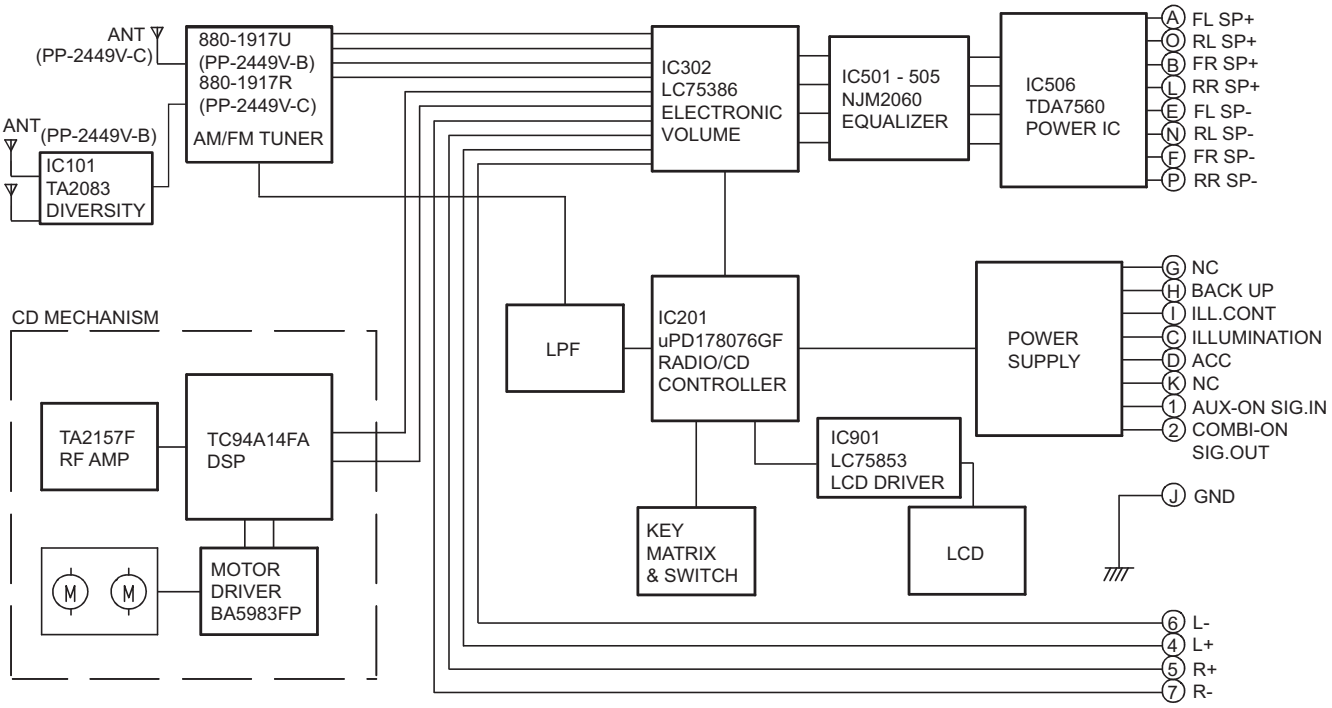
1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator
   The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens
   Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

BLOCK DIAGRAM



ADJUSTMENT

Item	Procedure	Measuring instrument
FM Diversity (PP-2449V-B)	1. Antenna connect to antenna receptacle(Main side only) 2. Input the 98.1MHz/25dBu(1kHz,22.5kHz MOD) signal. 3. Connect a digital tester to TP1(DIV-TP) and adjust VR101 so that the reading of digital tester is 0.6V +0.2/-0.2V.	SSG Digital tester
Noise convergence	1. Input a 98.1MHz/55dB(1kHz,30% MOD)signal.(0dB=1.4V) 2. Adjust the output to -22dB +3/-3dB(PP-2449V-B),-18dB +3/-3dB(PP-2449V-C) by VR102 when the SSG output is set -20dBu.	SSG Milli-volt meter
Clock accuracy	1. Turn off and on the ACC switch,while holding CD EJECT button and POWER button.Repeat it twice slowly. 2. Set a universal timer to TP201,adjust TC201 so that a reading of the meter is 0 sec +0.1/-0.1 sec/day.	Universal timer

EXPLANATION OF IC

052-1173-00 uPD178076GF-541-3BA Radio & CD Controller

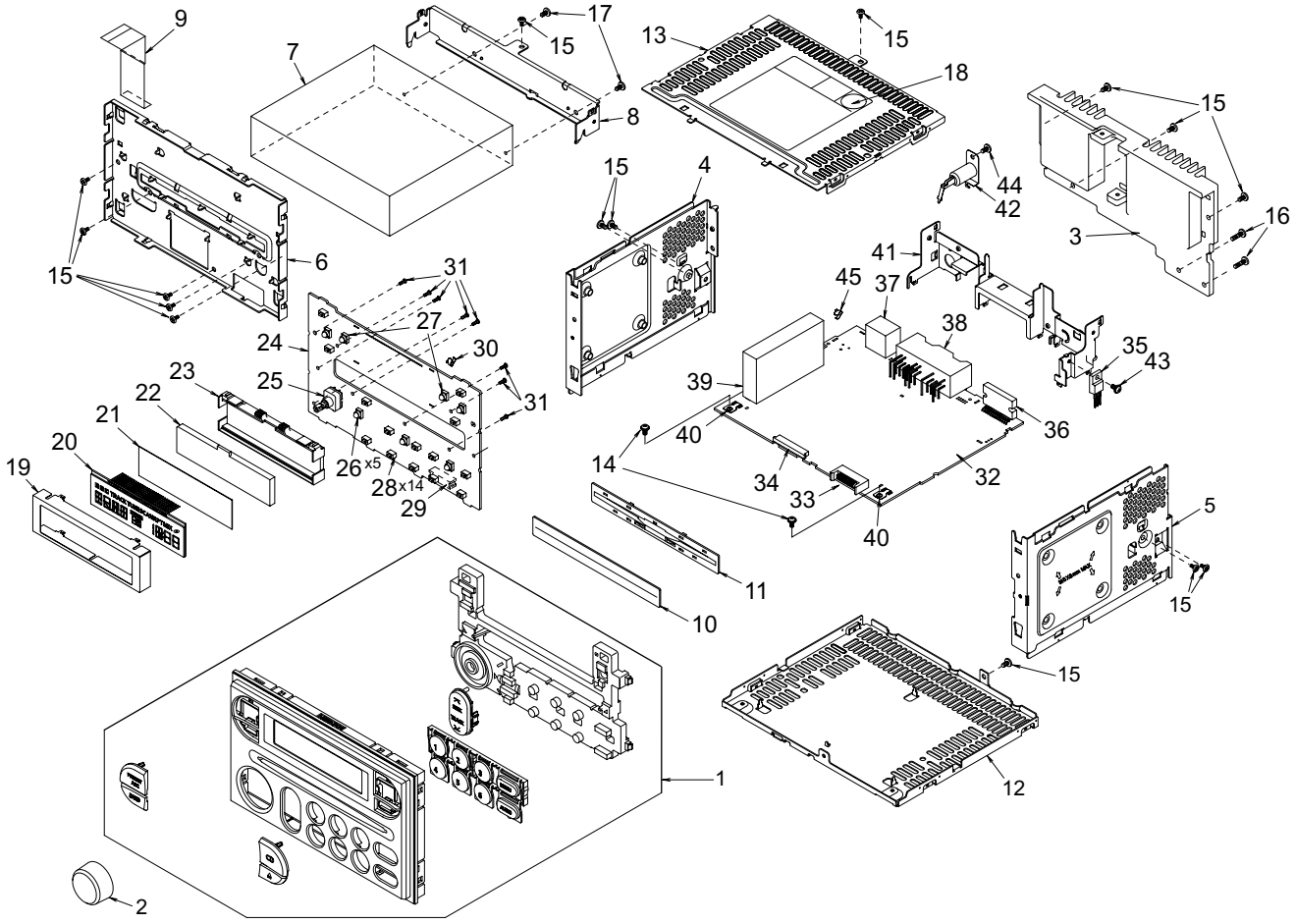
1.Terminal Description

pin 1: EJECT SW_ : IN : The eject key signal input.
pin 2: NU : - : Not in use.
pin 3: NU : - : Not in use.
pin 4: VOL DATA : O : Serial data output to the electric volume IC.
pin 5: VOL CLOCK : O : Serial data clock output to the electric volume IC.
pin 6: VOL CE : O : Chip enable signal output to the volume IC.
pin 7: NU : - : Not in use.
pin 8: LCD DI_ : IN : Serial data input from the LCD driver.
pin 9: LCD DO : O : Serial data output to the LCD driver.
pin 10: LCD CLK : O : Serial data clock output to LCD driver.
pin 11: LCD CE : O : Chip enable signal output to the LCD driver.
pin 12: NU : - : Not in use.
pin 13: POWER SW_ : IN : Power switch pulse input.
pin 14: VOL 1 : IN : Volume control pulse input from the rotary switch.
pin 15: VOL 2 : IN : Volume control pulse input from the rotary switch.
pin 16: ILL_ : IN : Illumination ON signal input.
pin 17: NU : - : Not in use.
pin 18: NU : - : Not in use.
pin 19: NU : - : Not in use.
pin 20: NU : - : Not in use.
pin 21: NU : - : Not in use.
pin 22: NU : - : Not in use.
pin 23: NU : - : Not in use.
pin 24: NU : - : Not in use.
pin 25: NU : - : Not in use.
pin 26: NU : - : Not in use.
pin 27: A VDD : - : Positive supply voltage for the Analog section.
pin 28: NU : - : Not in use.
pin 29: NU : - : Not in use.
pin 30: NU : - : Not in use.
pin 31: NU : - : Not in use.
pin 32: A VSS : - : Analog ground.
pin 33: REG CPU : IN : Capacitor connection terminal to suppress the ripple.
pin 34: VDD 0 : - : Positive supply voltage.
pin 35: REG OSC : IN : Capacitor connection terminal to suppress the ripple.
pin 36: X 2 : - : Crystal connection.
pin 37: X 1 : - : Crystal connection.
pin 38: GND 0 : - : Ground.
pin 39: NU : - : Not in use.
pin 40: GND 2 : - : Ground.
pin 41: AM IF : IN : Input terminal of the internal universal counter for AM IF.
pin 42: FM IF : IN : Input terminal of the internal universal counter for FM IF.
pin 43: VDD PLL : - : Positive supply voltage for the PLL.
pin 44: FM OSC : IN : Input terminal of the internal counter for FM OSC(Local Oscillation).
pin 45: AM OSC : IN : Input terminal of the internal counter for AM OSC(Local Oscillation).
pin 46: GND PLL : - : Ground for the PLL.
pin 47: Voltage Tune : O : PLL error output.
pin 48: NU : - : Not in use.
pin 49: IC : IN : Not in use.
pin 50: RESET_ : IN : Reset signal input.

pin 51: SP INIT : IN : 4SP = "L" , 2SP = "H".
pin 52: NU : - : Not in use.
pin 53: ST_/TWEET_ : I/O: Outputs "L" at AM 900kHz receiving. Inputs "L" at FM stereo receiving.
pin 54: CLK INT : IN : Without the clock display = "H".
pin 55: AUX ON_ : IN : AUX ON signal input.
pin 56: TEST : IN : Test enable signal input.
pin 57: LCD ON_ : O : LCD back light ON signal output.
pin 58: NU : - : Not in use.
pin 59: BEEP : O : Beep out.
pin 60: NU : - : Not in use.
pin 61: NU : - : Not in use.
pin 62: CD RESET_ : O : Reset signal output to the CD mechanism controller.
pin 63: NU : - : Not in use.
pin 64: AF MUTE_ : O : Audio signal mute pulse output.
pin 65: NU : - : Not in use.
pin 66: FM ON_ : O : FM ON flag output.
pin 67: AM ON_ : O : AM ON flag output.
pin 68: CD ON : O : CD ON flag output.
pin 69: NU : - : Not in use.
pin 70: NU : - : Not in use.
pin 71: NU : - : Not in use.
pin 72: RF MUTE : O : RF mute signal output.
pin 73: DX_/LO : O : DX = "L" , Local = "H".
pin 74: SYS ON : O : System-ON signal output.
pin 75: AMP ON : O : Audio power amplifier ON signal output.
pin 76: COMBI ON : O : COMBI ON pulse output.
pin 77: NU : - : Not in use.
pin 78: ACC IN_ : IN : ACC ON signal input
pin 79: RADIO ON : O : Radio ON flag output.
pin 80: NU : - : Not in use.
pin 81: SBSY : IN : CD IC Sub Q data request signal input.
pin 82: GND 1 : - : Ground.
pin 83: CD CONNECT_ : IN : "L" is outputted when CD-FPC connection trouble is detected.
pin 84: BUS 0 : I/O: CD IC Data input / output.
pin 85: BUS 1 : I/O: CD IC Data input / output.
pin 86: BUS 2 : I/O: CD IC Data input / output.
pin 87: BUS 3 : I/O: CD IC Data input / output.
pin 88: BUC CLOCK : O : CD IC clock pulse output.
pin 89: CCE : O : Chip enable signal output to CD IC.
pin 90: GS1 TEST : O : Test data output.
pin 91: S STOP : IN : "L"= In side limit.
pin 92: CHU SW : IN : CD disc chucking signal input.
pin 93: TR B : IN : Photo sensor signal input from the CD mechanism.
pin 94: TR A : IN : Photo sensor signal input from the CD mechanism.
pin 95: LOAD CONT : IN : Loading = "H", Eject = "L".
pin 96: LOAD MUTE : O : Loading muting control output.
pin 97: NU : - : Not in use.
pin 98: NU : - : Not in use.
pin 99: VDD PORT : - : Positive supply voltage for the ports.
pin100: GND PORT : - : Ground for the ports.

EXPLODED VIEW/PARTS LIST

Main section



Note)Some parts depend on each model.The model name is specified in the description.
(V-B):PP-2449V-B (V-C):PP-2449V-C

NO.	PART NO.	DESCRIPTION	Q'TY
1	940-7962-87 940-7962-88	ESCUTCHEON ASSY (V-B) ESCUTCHEON ASSY (V-C)	1
2	380-5530-00	KNOB	1
3	313-1827-10	HEAT SINK	1
4	305-0313-00	SIDE PLATE	1

NO.	PART NO.	DESCRIPTION	Q'TY
5	305-0314-00	SIDE PLATE	1
6	331-3256-00	ES PLATE	1
7	929-0220-84	CD MECHANISM	1
8	331-3254-10	MECHANISM BRKT	1
9	816-2549-02	FLAT WIRE	1

NO.	PART NO.	DESCRIPTION	Q'TY
10	346-0140-00	LEATHER SHEET	1
11	335-6647-00	DISC GUIDE	1
12	311-1833-10	LOWER CASE	1
13	310-1739-10	UPPER CASE	1
14	716-0878-00	IT SCREW	2
15	714-2606-81	MACHINE SCREW(M2.6x6)	15
16	714-2612-81	MACHINE SCREW(M2.6x12)	2
17	714-2603-81	MACHINE SCREW(M2.6x3)	2
18	286-6126-57 286-6126-58	SETPLATE (V-B) SETPLATE(V-C)	1
19	331-3255-00	LCD COVER	1
20	379-1219-30	INDICATOR(LCD)	1
21	335-6668-00	COLOR FILTER	1
22	335-6645-01	LCD REFLECTOR	1
23	335-6646-00	ILLUMI HOLDER	1
24	039-1985-02	SWITCH PWB (WITHOUT COMPONENT)	1
25	016-0013-03	ROTARY ENCODER	1
26	017-0433-86	PILOTLAMP(14V40mA)	5
27	017-0447-82	PILOTLAMP(8V105mA)	2
28	013-6305-50	TACT SWITCH	14

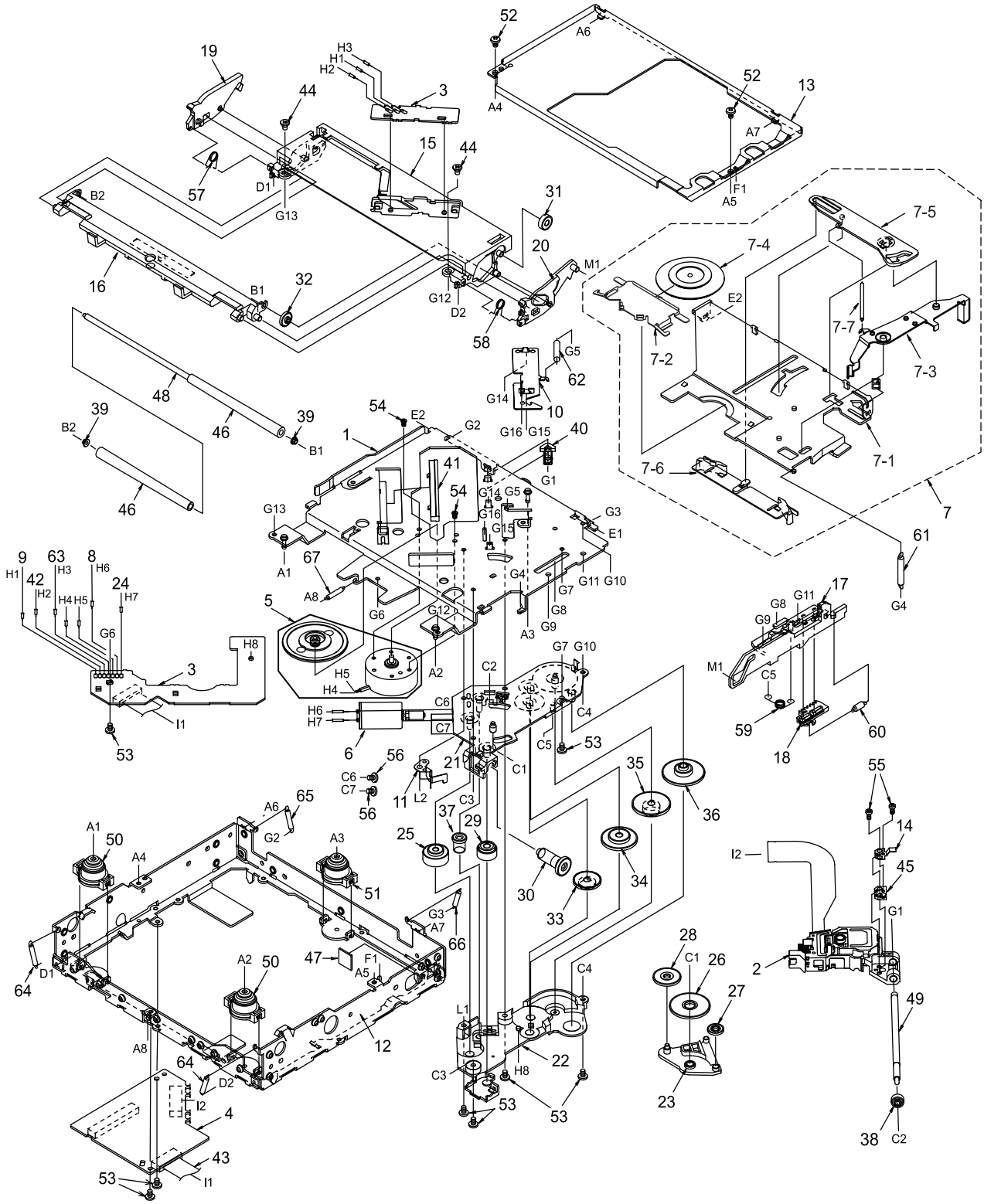
NO.	PART NO.	DESCRIPTION	Q'TY
29	074-1151-14	OUTLET SOCKET(14P)	1
30	073-0774-00	TERMINAL	1
31	702-2006-81	TAP SCREW(2x6)	8
32	039-1984-03	MAIN PWB (WITHOUT COMPONENT)	1
33	076-0540-14	PLUG(14P)	1
34	074-1191-26	OUTLET SOCKET(26P)	1
35	103-2012-00	TRANSISTOR(2SD2012)	1
36	051-2037-00	POWER IC	1
37	074-0850-08	OUTLET SOCKET(DIN8P)	1
38	074-1068-11	OUTLET SOCKET(10P+6P)	1
39	880-1917U 880-1917R	AM/FM TUNER (V-B) AM/FM TUNER (V-C)	1
40	073-0762-90	TERMINAL	2
41	307-0683-15 307-0683-05	REAR PLATE WITH ANT-RECEPTACLE (V-B) REAR PLATE(V-C)	1
42	092-0702-00	ANT-RECEPTACLE (V-C)	1
43	716-0878-00	IT SCREW	1
44	714-2606-81	M. SCREW M2.6x6 (V-C)	1
45	073-0774-00	TERMINAL	1

CD mechanism section 929-0220-84

Exploded view on next page.

NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0595-25	DRIVE PLATE ASSY	1
2	969-0060-30	PICK UP UNIT	1
3	039-1944-21	LED PWB (WITHOUT COMPONENT)	1
4	039-1945-20	CD PWB (WITHOUT COMPONENT)	1
5	SMA-182-100	MOTOR ASSY(SPINDLE)	1
6	SMA-183-100	MOTOR ASSY(SLED)	1
7	HBS-524-100	CLAMPER SUB ASSY	1
7-1	620-1022-25	CLAMPER LINK	1
7-2	620-1023-23	CLAMPER PLATE	1
7-3	620-1024-23	SENSOR ARM	1
7-4	621-0708-20	CLAMPER RING	1
7-5	621-0626-21	STOPPER LINK	1
7-6	621-0627-21	DISC STOPPER	1
7-7	750-3471-20	SENSOR SPRING	1
8	803-4906-60	VINYL COAT WIRE(ORG)	1
9	816-2591-00	LEAD WIRE(YEL)	1
10	620-1025-22	ID-LOCK PLATE	1
11	620-1026-21	SPRING PLATE	1
12	620-1027-26	LOWER CHASSIS	1
13	620-1028-23	UPPER CHASSIS	1
14	966-0638-20	SH-RACK ASSY	1
15	621-0598-27	UPPER GUIDE	1
16	621-0718-21	ROLLER GUIDE	1
17	621-0600-26	SHIFT LEVER	1
18	621-0601-21	RACK	1
19	621-0602-22	LOCK ARM L	1
20	621-0603-25	LOCK ARM R	1

NO.	PART NO.	DESCRIPTION	Q'TY
21	621-0724-20	GEAR BASE	1
22	621-0605-22	GEAR COVER	1
23	621-0606-21	IDLE CASE	1
24	816-2590-00	VINYL COAT WIRE(GRN)	1
25	621-0608-21	SECOND GEAR	1
26	621-0609-20	BASE GEAR	1
27	621-0610-20	IDLE GEAR A	1
28	621-0611-20	IDLE GEAR B	1
29	621-0612-21	ROLLER GEAR A	1
30	621-0613-20	ROLLER GEAR B	1
31	621-0614-20	ROLLER GEAR C	1
32	621-0615-21	ROLLER GEAR D	1
33	621-0616-20	POWER GEAR A	1
34	621-0617-20	POWER GEAR B	1
35	621-0618-20	POWER GEAR C	1
36	621-0619-20	POWER GEAR D	1
37	621-0620-20	THREAD GEAR A	1
38	621-0621-20	THREAD GEAR B	1
39	621-0622-21	ROLLER SLEEVE	2
40	621-0623-22	LS-HOLDER	1
41	621-0624-22	GUIDE RAIL	1
42	816-2593-00	LEAD WIRE(PUR)	1
43	816-2542-01	FLAT WIRE(10P)	1
44	716-3473-00	SCREW	2
45	621-0709-20	SH-BASE	1
46	621-0629-20	LOADING ROLLER	2
47	345-8704-20	CUSHION RUBBER	1
48	622-1664-20	ROLLER SHAFT	1



NO.	PART NO.	DESCRIPTION	Q'TY
49	624-0018-01	LEAD SCREW	1
50	629-0081-20	DAMPER F	2
51	629-0082-20	DAMPER R	1
52	714-2003-81	MACHINE SCREW	2
53	716-1507-00	SCREW	9
54	716-1733-00	SCREW	2
55	716-3469-00	SCREW	2
56	716-3446-00	SCREW	2
57	750-3465-21	ROLLER SPRING L	1

NO.	PART NO.	DESCRIPTION	Q'TY
58	750-3466-20	ROLLER SPRING R	1
59	750-3467-21	SHIFT SPRING	1
60	750-3468-20	RACK SPRING	1
61	750-3469-20	CLAMPER SPRING	1
62	750-3470-20	ID-LOCK SPRING	1
63	816-2592-00	LEAD WIRE(BLU)	1
64	750-3472-21	DR-SPRING F	2
65	750-3473-20	DR-SPRING RA	1
66	750-3474-20	DR-SPRING RB	1
67	750-3475-21	DR-SPRING C	1

ELECTRICAL PARTS LIST

Main PWB(B1) section

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

Note)Some parts depend on each model.The model name is specified in the description.
(V-B):PP-2449V-B (V-C):PP-2449V-C

REF No.	PART No.	DESCRIPTION
BL101	880-1917U	AM/FM TUNER(V-B)
BL101	880-1917R	AM/FM TUNER(V-C)
C101	168-1032-55	0.01uF(V-B)
C102	182-1053-69	50V1uF(V-B)
C103	166-4701-50	47pF CH(V-B)
C104	166-4701-50	47pF CH(V-B)
C105	166-1511-50	150pF CH(V-B)
C105	119-0000-05	1/10W 0 ohm JW (V-C)
C106	168-3332-78	0.033uF(V-B)
C107	168-6812-55	680pF(V-B)
C108	168-4732-78	0.047uF(V-B)
C109	168-3922-55	3900pF(V-B)
C110	168-1022-55	1000pF(V-B)
C111	168-1032-55	0.01uF(V-B)
C112	168-1032-55	0.01uF(V-B)
C113	166-2201-50	22pF CH(V-B)
C114	166-1007-50	10pF CH
C116	168-1045-56	0.1uF
C117	178-2232-78	0.022uF
C118	168-1022-55	1000pF
C119	182-1073-29	10V100uF
C120	042-0458-93	50V2.2uF
C122	182-1073-29	10V100uF
C123	182-1073-29	10V100uF
C125	182-4763-39	16V47uF
C126	183-1056-68	50V1uF NP
C127	168-1532-55	0.015uF
C128	168-3332-78	0.033uF
C129	168-3332-78	0.033uF
C150	166-1201-50	12pF CH
C203	166-1011-50	100pF CH
C204	166-1011-50	100pF CH
C205	166-1011-50	100pF CH
C206	166-1011-50	100pF CH
C207	168-1045-56	0.1uF
C208	168-1045-56	0.1uF
C212	166-8097-50	8pF CH
C213	182-4763-19	6.3V47uF
C214	168-1045-56	0.1uF
C215	182-4763-19	6.3V47uF
C301	168-4722-55	4700pF
C303	184-2273-28	10V220uF
C306	184-1083-29	10V1000uF
C307	182-1063-39	16V10uF
C311	183-1063-37	16V10uF
C312	183-1063-37	16V10uF
C313	183-1063-37	16V10uF
C314	183-1063-37	16V10uF
C315	182-2263-19	6.3V22uF
C316	182-1053-69	50V1uF
C318	183-1043-69	50V0.1uF
C319	183-1043-69	50V0.1uF
C321	182-1053-69	50V1uF
C322	178-1042-78	0.1uF
C323	178-1042-78	0.1uF
C325	182-1053-69	50V1uF
C326	182-1053-69	50V1uF
C328	182-1063-39	16V10uF
C329	182-1063-39	16V10uF
C330	182-1063-39	16V10uF
C331	182-1063-39	16V10uF
C332	182-1053-69	50V1uF
C333	182-1053-69	50V1uF
C334	178-1242-78	0.12uF
C335	178-1242-78	0.12uF
C336	168-1532-55	0.015uF
C337	168-1532-55	0.015uF
C338	168-3312-55	330pF
C339	168-3312-55	330pF
C340	182-1063-39	16V10uF
C341	182-1063-39	16V10uF
C342	168-3332-78	0.033uF
C343	182-1063-39	16V10uF
C344	182-1063-39	16V10uF
C345	182-1063-39	16V10uF
C346	182-1063-39	16V10uF
C501	168-5612-55	560pF(V-B)
C503	168-5612-55	560pF(V-B)
C505	166-2201-50	22pF CH
C506	166-2201-50	22pF CH
C507	168-8212-55	820pF(V-B)
C508	166-2201-50	22pF CH
C509	166-2201-50	22pF CH
C510	168-2222-55	2200pF(V-B)
C511	168-2222-55	2200pF(V-B)
C512	166-2201-50	22pF CH
C513	166-2201-50	22pF CH
C514	168-8212-55	820pF(V-B)
C515	166-2201-50	22pF CH
C516	166-2201-50	22pF CH
C517	178-6832-78	0.068uF(V-B)
C517	178-3332-78	0.033uF(V-C)
C518	178-2242-78	0.22uF(V-B)
C518	043-0309-92	10V 0.68uF(V-C)
C519	043-0309-91	10V 0.82uF(V-B)
C519	178-4732-78	0.047uF(V-C)
C520	178-2742-78	0.27uF(V-B)
C520	178-1042-78	0.1uF(V-C)
C521	166-2201-50	22pF CH
C522	166-2201-50	22pF CH
C523	166-2201-50	22pF CH
C524	166-2201-50	22pF CH
C525	043-0309-91	10V 0.82uF(V-B)
C525	178-4732-78	0.047uF(V-C)
C526	178-2742-78	0.27uF(V-B)
C526	178-1042-78	0.1uF(V-C)
C527	178-6832-78	0.068uF(V-B)
C527	178-3332-78	0.033uF(V-C)
C528	178-2242-78	0.22uF(V-B)
C528	043-0309-92	10V 0.68uF(V-C)
C529	178-5632-78	0.056uF(V-B)
C529	178-1842-78	0.18uF(V-C)
C530	178-5632-78	0.056uF(V-B)
C531	178-1242-78	0.12uF(V-B)
C531	178-1842-78	0.18uF(V-C)
C532	178-1242-78	0.12uF(V-B)
C532	178-1842-78	0.18uF(V-C)
C533	178-1842-78	0.18uF(V-B)
C533	178-8232-78	0.082uF(V-C)
C534	178-1842-78	0.18uF(V-B)
C535	178-6832-78	0.068uF(V-B)
C535	178-1242-78	0.12uF(V-C)
C536	178-6832-78	0.068uF(V-B)
C536	178-1242-78	0.12uF(V-C)
C537	166-2201-50	22pF CH
C538	166-2201-50	22pF CH
C539	166-2201-50	22pF CH
C540	166-2201-50	22pF CH
C541	166-2201-50	22pF CH
C542	166-2201-50	22pF CH
C543	166-2201-50	22pF CH
C544	166-2201-50	22pF CH
C545	178-1832-78	0.018uF(V-B)
C545	178-8222-78	8200pF(V-C)
C546	178-1832-78	0.018uF(V-B)
C546	178-8222-78	8200pF(V-C)
C547	178-4732-78	0.047uF(V-B)
C547	178-3332-78	0.033uF(V-C)
C548	178-4732-78	0.047uF(V-B)
C548	178-3332-78	0.033uF(V-C)
C549	178-2232-78	0.022uF(V-B)
C549	178-4732-78	0.047uF(V-C)
C550	178-2232-78	0.022uF(V-B)
C550	178-4732-78	0.047uF(V-C)
C551	178-1832-78	0.018uF(V-B)
C551	178-2232-78	0.022uF(V-C)
C552	178-1832-78	0.018uF(V-B)
C552	178-2232-78	0.022uF(V-C)
C553	178-5632-78	0.056uF(V-B)
C553	178-6832-78	0.068uF(V-C)
C554	178-5632-78	0.056uF(V-B)
C554	178-6832-78	0.068uF(V-C)
C555	178-5632-78	0.056uF(V-B)
C555	178-4732-78	0.047uF(V-C)
C556	178-5632-78	0.056uF(V-B)
C556	178-4732-78	0.047uF(V-C)
C557	178-5632-78	0.056uF(V-B)
C557	178-6832-78	0.068uF(V-C)
C558	178-5632-78	0.056uF(V-B)
C558	178-4732-78	0.047uF(V-C)
C559	166-2201-50	22pF CH
C560	166-2201-50	22pF CH
C561	166-2201-50	22pF CH
C562	166-2201-50	22pF CH
C563	178-5632-78	0.056uF(V-B)
C563	178-6832-78	0.068uF(V-C)
C564	178-5632-78	0.056uF(V-B)
C564	178-4732-78	0.047uF(V-C)
C568	178-3932-78	0.039uF
C569	178-3932-78	0.039uF
C570	178-3932-78	0.039uF
C571	178-3932-78	0.039uF
C572	168-1022-55	1000pF
C573	182-1053-69	50V1uF
C574	182-2253-69	50V2.2uF
C576	168-1045-56	0.1uF
C701	172-1041-15	0.1uF
C702	042-0447-00	16V2200uF
C703	168-2222-55	2200pF
C704	168-2222-55	2200pF
C705	168-2222-55	2200pF
C706	168-2222-55	2200pF
C707	168-2222-55	2200pF
C708	168-2222-55	2200pF
C709	168-2222-55	2200pF
C710	168-2222-55	2200pF
C711	168-2222-55	2200pF
C712	172-1041-15	0.1uF
C713	182-1063-39	16V10uF
C714	183-6843-69	50V0.68uF
C802	182-4763-39	16V47uF
C803	182-1063-39	16V10uF
C804	182-4763-19	6.3V47uF
C805	182-4763-19	6.3V47uF
C806	182-1063-39	16V10uF
C807	182-1063-39	16V10uF
C808	168-1045-56	0.1uF
C809	184-4773-39	16V470uF
C810	183-4756-58	35V4.7uF NP
C811	168-1045-56	0.1uF
C812	168-1045-56	0.1uF
C813	172-4741-15	0.47uF
C901	178-2242-78	0.22uF

REF No.	PART No.	DESCRIPTION
C903	168-1022-55	1000pF
C904	168-1022-55	1000pF
C905	042-0447-00	16V2200uF
CCT205	050-0140-54	1/32W 1k ohm x4J
CCT206	050-0140-54	1/32W 1k ohm x4J
D101	001-3205-90	1SV251(V-B)
D102	001-3205-90	1SV251(V-B)
D701	001-2015-00	RL253
D702	001-0466-90	S5688B
D703	001-0347-34	MA4062L
D704	001-0466-90	S5688B
D802	001-0347-48	MA4091H
D803	001-0516-90	MA111
D804	001-0504-31	HZS6A2L
D805	001-0516-90	MA111(V-B)
D806	001-0504-31	HZS6A2L
D808	001-0504-45	HZS9B1L
D810	001-0347-48	MA4091H
IC101	051-4603-90	TA2083FN(V-B)
IC201	052-1173-00	uPD178076GF-541-3BA
IC301	051-3034-90	NJM4558V
IC302	051-5024-10	LC75386YWHS-R
IC501	051-3019-90	NJM2060V
IC502	051-3019-90	NJM2060V
IC503	051-3019-90	NJM2060V
IC504	051-3019-90	NJM2060V
IC505	051-3019-90	NJM2060V
IC506	051-2037-00	TDA7560
J201	074-1191-26	26P
J302	074-0850-08	8P
J701	074-1068-11	16P
L101	010-2046-41	560uH(V-B)
L102	010-2198-65	0.1uH(V-B)
L103	010-2198-53	5.6uH(V-B)
L104	010-2003-04	COIL
L105	010-2312-52	0.27uH(V-B)
L202	010-6009-64	2.2uH
L701	009-0680-00	CHOKE
L701	009-0680-60	CHOKE
P701	076-0540-14	14P
Q101	192-2712-00	2SC2712(V-B)
Q102	192-2712-00	2SC2712(V-B)
Q103	125-2004-92	RN1402(V-B)
Q104	198-0669-00	2SK669
Q106	190-1150-00	2SA1150
Q107	125-2004-92	RN1402
Q108	190-1150-00	2SA1150
Q110	125-2004-92	RN1402(V-B)
Q304	125-2004-92	RN1402
Q305	125-9003-92	IMD3
Q701	192-2712-00	2SC2712
Q801	193-2118-00	2SD2118
Q802	125-2004-92	RN1402
Q803	190-1150-00	2SA1150
Q804	125-2004-92	RN1402
Q805	125-0002-92	RN2402
Q806	193-1858-00	2SD1858
Q808	125-2004-92	RN1402(V-B)
Q809	191-0709-00	2SB709A(V-B)
Q810	191-1205-60	2SB1205RST(V-B)
Q811	193-2118-00	2SD2118
Q812	125-9003-92	IMD3
Q813	103-2012-00	2SD2012
Q814	125-2004-92	RN1402
Q816	193-2118-00	2SD2118
Q817	193-1306-00	2SD1306
Q818	192-2712-00	2SC2712
R102	119-4741-15	1/10W 470k ohm (V-B)
R103	119-4741-15	1/10W 470k ohm (V-B)
R104	119-8201-15	1/10W 82 ohm(V-B)
R105	119-1031-15	1/10W 10k ohm(V-B)
R106	119-4741-15	1/10W 470k ohm (V-B)
R107	119-2231-15	1/10W 22k ohm(V-B)
R108	119-1031-15	1/10W 10k ohm(V-B)
R109	119-1031-15	1/10W 10k ohm(V-B)
R110	119-1031-15	1/10W 10k ohm(V-B)
R111	119-1221-15	1/10W 1.2k ohm
R112	119-4721-15	1/10W 4.7k ohm
R113	119-1821-15	1/10W 1.8k ohm
R114	111-2701-98	1/4WS 27 ohm
R115	119-2221-15	1/10W 2.2k ohm
R116	111-1501-98	1/4WS 15 ohm
R117	119-4721-15	1/10W 4.7k ohm
R118	119-4741-15	1/10W 470k ohm (V-C)
R119	111-1001-98	1/4WS 10 ohm
R120	111-2221-98	1/4WS 2.2k ohm
R121	111-1031-98	1/4WS 10k ohm
R122	119-1021-15	1/10W 1k ohm
R123	111-1031-98	1/4WS 10k ohm
R124	111-2221-98	1/4WS 2.2k ohm
R196	119-0000-05	1/10W 0 ohm JW (V-B)
R197	119-0000-05	1/10W 0 ohm JW (V-B)
R199	119-0000-05	1/10W 0 ohm JW (V-C)
R204	119-4731-15	1/10W 47k ohm
R206	119-4731-15	1/10W 47k ohm
R207	119-4731-15	1/10W 47k ohm
R208	119-4731-15	1/10W 47k ohm
R209	119-1041-15	1/10W 100k ohm
R210	119-1041-15	1/10W 100k ohm
R211	119-1031-15	1/10W 10k ohm
R212	119-1031-15	1/10W 10k ohm
R213	119-1031-15	1/10W 10k ohm(V-C)
R214	119-2231-15	1/10W 22k ohm
R215	119-1031-15	1/10W 10k ohm(V-B)
R221	119-1031-15	1/10W 10k ohm
R222	119-4731-15	1/10W 47k ohm
R223	119-1031-15	1/10W 10k ohm
R224	119-1021-15	1/10W 1k ohm
R225	119-1031-15	1/10W 10k ohm
R226	119-1021-15	1/10W 1k ohm
R227	119-4731-15	1/10W 47k ohm
R228	119-3311-15	1/10W 330 ohm
R229	119-3311-15	1/10W 330 ohm
R230	119-1021-15	1/10W 1k ohm
R231	119-1021-15	1/10W 1k ohm
R232	119-4731-15	1/10W 47k ohm
R233	119-4731-15	1/10W 47k ohm
R234	119-1031-15	1/10W 10k ohm
R236	119-4731-15	1/10W 47k ohm
R237	119-1031-15	1/10W 10k ohm
R245	119-1031-15	1/10W 10k ohm
R246	119-1031-15	1/10W 10k ohm
R301	119-1021-15	1/10W 1k ohm
R302	119-1021-15	1/10W 1k ohm
R308	119-4731-15	1/10W 47k ohm
R310	119-4731-15	1/10W 47k ohm
R315	119-4731-15	1/10W 47k ohm
R316	032-0106-64	1/8W 56k ohm D
R317	119-3011-15	1/10W 300 ohm
R318	032-0106-64	1/8W 56k ohm D
R319	111-8211-98	1/4WS 820 ohm
R320	111-8211-98	1/4WS 820 ohm
R323	032-0106-64	1/8W 56k ohm D
R324	119-3011-15	1/10W 300 ohm
R325	032-0106-64	1/8W 56k ohm D
R334	119-4721-15	1/10W 4.7k ohm
R335	119-4721-15	1/10W 4.7k ohm
R338	119-4741-15	1/10W 470k ohm
R339	119-4731-15	1/10W 47k ohm
R501	119-3331-15	1/10W 33k ohm
R502	119-3331-15	1/10W 33k ohm
R503	119-3331-15	1/10W 33k ohm
R504	119-3331-15	1/10W 33k ohm
R505	119-2231-15	1/10W 22k ohm
R506	119-2231-15	1/10W 22k ohm
R507	119-2231-15	1/10W 22k ohm
R508	119-2231-15	1/10W 22k ohm
R509	119-1831-15	1/10W 18k ohm(V-B)
R511	119-1831-15	1/10W 18k ohm(V-B)
R513	119-4721-15	1/10W 4.7k ohm
R514	119-1031-15	1/10W 10k ohm
R515	119-1031-15	1/10W 10k ohm
R516	119-4721-15	1/10W 4.7k ohm
R517	119-3321-15	1/10W 3.3k ohm (V-B)
R518	119-1231-15	1/10W 12k ohm(V-B)
R519	119-1231-15	1/10W 12k ohm(V-B)
R520	119-3321-15	1/10W 3.3k ohm (V-B)
R521	119-4721-15	1/10W 4.7k ohm
R522	119-4721-15	1/10W 4.7k ohm
R523	119-1031-15	1/10W 10k ohm
R524	119-1031-15	1/10W 10k ohm
R525	119-2221-15	1/10W 2.2k ohm
R528	119-2221-15	1/10W 2.2k ohm
R529	119-2221-15	1/10W 2.2k ohm
R532	119-2221-15	1/10W 2.2k ohm
R533	119-1221-15	1/10W 1.2k ohm (V-C)
R535	119-1821-15	1/10W 1.8k ohm (V-B)
R536	119-1521-15	1/10W 1.5k ohm (V-B)
R536	119-1001-15	1/10W 10 ohm(V-C)
R537	119-5611-15	1/10W 560 ohm
R538	119-5611-15	1/10W 560 ohm
R539	119-4731-15	1/10W 47k ohm
R540	119-4731-15	1/10W 47k ohm
R541	119-4731-15	1/10W 47k ohm
R542	119-4731-15	1/10W 47k ohm
R543	119-5611-15	1/10W 560 ohm
R544	119-5611-15	1/10W 560 ohm
R545	119-1821-15	1/10W 1.8k ohm (V-B)
R546	119-1521-15	1/10W 1.5k ohm (V-B)
R546	119-1001-15	1/10W 10 ohm(V-C)
R547	119-2221-15	1/10W 2.2k ohm (V-C)
R549	119-3321-15	1/10W 3.3k ohm (V-B)
R549	119-2221-15	1/10W 2.2k ohm (V-C)
R550	119-3321-15	1/10W 3.3k ohm (V-B)
R551	119-2721-15	1/10W 2.7k ohm (V-B)
R551	119-2221-15	1/10W 2.2k ohm (V-C)
R552	119-2721-15	1/10W 2.7k ohm (V-B)
R552	119-2221-15	1/10W 2.2k ohm (V-C)
R553	119-1511-15	1/10W 150 ohm
R554	119-1511-15	1/10W 150 ohm(V-B)
R555	119-1511-15	1/10W 150 ohm
R556	119-1511-15	1/10W 150 ohm
R557	119-1541-15	1/10W 150k ohm
R558	119-1541-15	1/10W 150k ohm
R559	119-1541-15	1/10W 150k ohm
R560	119-1541-15	1/10W 150k ohm
R561	119-1541-15	1/10W 150k ohm
R562	119-1541-15	1/10W 150k ohm
R563	119-1541-15	1/10W 150k ohm

REF No.	PART No.	DESCRIPTION
R564	119-1541-15	1/10W 150k ohm
R565	119-1511-15	1/10W 150 ohm
R566	119-1511-15	1/10W 150 ohm
R567	119-1511-15	1/10W 150 ohm
R568	119-1511-15	1/10W 150 ohm
R569	119-2221-15	1/10W 2.2k ohm (V-B)
R569	119-1821-15	1/10W 1.8k ohm (V-C)
R570	119-2221-15	1/10W 2.2k ohm (V-B)
R570	119-1821-15	1/10W 1.8k ohm (V-C)
R571	119-3321-15	1/10W 3.3k ohm (V-B)
R571	119-1521-15	1/10W 1.5k ohm (V-C)
R572	119-3321-15	1/10W 3.3k ohm (V-B)
R572	119-1521-15	1/10W 1.5k ohm (V-C)
R573	119-1041-15	1/10W 100k ohm (V-B)
R573	119-4731-15	1/10W 47k ohm(V-C)
R574	119-1041-15	1/10W 100k ohm (V-B)
R574	119-4731-15	1/10W 47k ohm(V-C)
R575	119-8221-15	1/10W 8.2k ohm
R576	119-8221-15	1/10W 8.2k ohm
R577	119-1031-15	1/10W 10k ohm
R578	119-1031-15	1/10W 10k ohm
R579	119-5131-15	1/10W 51k ohm
R580	119-5131-15	1/10W 51k ohm
R581	119-5131-15	1/10W 51k ohm

REF No.	PART No.	DESCRIPTION
R582	119-5131-15	1/10W 51k ohm
R583	119-1031-15	1/10W 10k ohm
R584	119-1031-15	1/10W 10k ohm
R586	119-8221-15	1/10W 8.2k ohm
R587	119-8221-15	1/10W 8.2k ohm
R588	119-1041-15	1/10W 100k ohm (V-B)
R588	119-4731-15	1/10W 47k ohm(V-C)
R589	119-1041-15	1/10W 100k ohm (V-B)
R589	119-4731-15	1/10W 47k ohm(V-C)
R590	119-1031-15	1/10W 10k ohm
R591	119-1031-15	1/10W 10k ohm
R592	119-1031-15	1/10W 10k ohm
R593	119-1031-15	1/10W 10k ohm
R594	119-1031-15	1/10W 10k ohm
R595	119-1031-15	1/10W 10k ohm
R596	119-1031-15	1/10W 10k ohm
R597	119-1031-15	1/10W 10k ohm
R598	119-1031-15	1/10W 10k ohm
R602	119-3941-15	1/10W 390k ohm
R603	119-3941-15	1/10W 390k ohm
R604	119-2231-15	1/10W 22k ohm
R605	119-2231-15	1/10W 22k ohm
R606	119-2231-15	1/10W 22k ohm
R607	119-2231-15	1/10W 22k ohm
R611	119-4731-15	1/10W 47k ohm
R612	119-1031-15	1/10W 10k ohm
R701	119-1031-15	1/10W 10k ohm
R702	119-5611-15	1/10W 560 ohm
R703	111-1531-98	1/4WS 15k ohm
R704	114-2291-11	1W 2.2 ohm
R803	111-4711-98	1/4WS 470 ohm
R804	111-1021-98	1/4WS 1k ohm

REF No.	PART No.	DESCRIPTION
R805	119-2231-15	1/10W 22k ohm
R806	119-4741-15	1/10W 470k ohm
R807	119-2231-15	1/10W 22k ohm
R810	111-1221-98	1/4W 1.2k ohm (V-B)
R811	111-4721-98	1/4W 4.7k ohm (V-B)
R812	111-6891-98	1/4W 6.8 ohm(V-B)
R813	111-6891-98	1/4W 6.8 ohm(V-B)
R814	111-2211-98	1/4WS 220 ohm
R815	119-1041-15	1/10W 100k ohm
R818	111-3911-98	1/4WS 390 ohm
R819	119-1041-15	1/10W 100k ohm
R821	111-2021-98	1/4WS 2k ohm
R822	111-2021-98	1/4WS 2k ohm
R825	111-1001-98	1/4WS 10 ohm
R826	119-5611-15	1/10W 560 ohm
R827	119-4721-15	1/10W 4.7k ohm
R828	111-1831-98	1/4WS 18k ohm
R829	111-1001-98	1/4WS 10 ohm
R901	119-1021-15	1/10W 1k ohm
R908	119-8201-15	1/10W 82 ohm
R910	111-3911-98	1/4WS 390 ohm
R912	119-1021-15	1/10W 1k ohm
R913	119-1021-15	1/10W 1k ohm
SUP101	060-0122-10	DSP-201M
SUP102	060-0122-10	DSP-201M(V-B)
TC201	004-1580-02	TRIMMER
TM101	073-0762-90	TERMINAL
TM9001	073-0762-90	TERMINAL
VR101	012-5203-63	470k ohm(V-B)
VR102	012-5203-56	10k ohm
X201	061-3055-00	4.5MHz

Switch PWB(B2) section

REF No.	PART No.	DESCRIPTION
C901	168-1045-56	0.1uF
C902	168-1045-56	0.1uF
C903	168-6812-55	680pF
C904	168-1045-56	0.1uF
C905	042-0423-92	6.3V 4.7uF
D901	001-0516-90	MA111
D902	001-0516-90	MA111
D903	001-0516-90	MA111
D904	001-0516-90	MA111
D905	001-0516-90	MA111
D906	001-0516-90	MA111
D907	001-0516-90	MA111
D908	001-0516-90	MA111

REF No.	PART No.	DESCRIPTION
IC901	051-6000-20	LC75853NW
J901	074-1151-14	14P
LCD1	379-1219-30	LCD
PL901	017-0447-82	8V105mA
PL902	017-0447-82	8V105mA
PL903	017-0433-86	14V40mA
PL904	017-0433-86	14V40mA
PL905	017-0433-86	14V40mA
PL906	017-0433-86	14V40mA
PL907	017-0433-86	14V40mA
R902	119-6831-15	1/10W 68k ohm
S901	013-6305-50	SKQMAH
S902	013-6305-50	SKQMAH

REF No.	PART No.	DESCRIPTION
S903	013-6305-50	SKQMAH
S904	013-6305-50	SKQMAH
S905	013-6305-50	SKQMAH
S906	013-6305-50	SKQMAH
S907	013-6305-50	SKQMAH
S908	013-6305-50	SKQMAH
S909	013-6305-50	SKQMAH
S910	013-6305-50	SKQMAH
S911	013-6305-50	SKQMAH
S912	013-6305-50	SKQMAH
S913	013-6305-50	SKQMAH
S915	013-6305-50	SKQMAH
VR903	016-0013-03	ROTARY ENCODER

CD PWB section(B3):CD mechanism

REF No.	PART No.	DESCRIPTION
C101	168-1042-78	0.1uF
C102	045-4701-50	47pF
C103	046-4722-58	4700pF
C104	168-1042-78	0.1uF
C105	046-1532-78	0.015uF
C106	046-1032-78	0.01uF
C107	046-1032-78	0.01uF
C108	046-4722-58	4700pF
C109	046-1522-58	1500pF
C110	046-3332-78	0.033uF
C111	168-1042-78	0.1uF
C112	046-3332-78	0.033uF
C113	168-1042-78	0.1uF
C114	168-1042-78	0.1uF
C115	046-4712-58	470pF
C116	046-4712-58	470pF
C117	043-0533-50	0.047uF
C118	043-0533-50	0.047uF
C119	045-2701-50	27pF

REF No.	PART No.	DESCRIPTION
C120	045-1801-50	18pF
C121	163-1063-35	16V 10uF
C122	178-1052-78	1uF
C123	046-1032-78	0.01uF
C124	163-1073-05	4V 100uF
C125	168-1042-78	0.1uF
C126	168-1042-78	0.1uF
C129	178-1052-78	1uF
C201	163-3363-05	4V 33uF
C202	168-1042-78	0.1uF
C203	178-1052-78	1uF
C204	163-1073-05	4V 100uF
C205	163-3363-05	4V 33uF
C206	168-1042-78	0.1uF
C207	043-0533-50	0.047uF
C208	046-6822-58	6800pF
C209	168-1042-78	0.1uF
C210	043-0533-50	0.047uF
C211	168-1042-78	0.1uF

REF No.	PART No.	DESCRIPTION
C212	168-1042-78	0.1uF
C213	045-5096-50	5pF
C214	045-5601-50	56pF
C215	043-0533-50	0.047uF
C216	178-1052-78	1uF
C217	045-1011-50	100pF
C301	163-1073-35	16V 100uF
C302	168-1042-78	0.1uF
C303	043-0533-50	0.047uF
D201	001-0516-90	MA111
IC101	051-6376-00	TC94A14FA
IC102	051-3279-90	BA033LBSG
IC201	051-5710-90	TA2157F
IC301	051-6049-08	BA5983FP-E2
J101	074-1228-76	26P
J201	074-1138-65	15P
J301	074-1138-60	10P
L101	010-2285-57	BLM21B102SPT
L102	010-2285-57	BLM21B102SPT

REF No.	PART No.	DESCRIPTION
L103	010-2285-57	BLM21B102SPT
L104	010-2285-57	BLM21B102SPT
L105	010-2285-57	BLM21B102SPT
L401	010-3050-93	10uH
Q201	131-1188-50	2SB1188
R102	033-5621-15	1/16W 5.6k ohm
R104	033-4731-15	1/16W 47k ohm
R105	033-1041-15	1/16W 100k ohm
R108	033-1531-15	1/16W 15k ohm
R109	033-1031-15	1/16W 10k ohm
R110	033-1051-15	1/16W 1M ohm
R111	033-3321-15	1/16W 3.3k ohm
R114	033-2211-15	1/16W 220 ohm
R115	033-2211-15	1/16W 220 ohm

REF No.	PART No.	DESCRIPTION
R116	033-1031-15	1/16W 10k ohm
R117	033-1021-15	1/16W 1k ohm
R131	033-4711-15	1/16W 470 ohm
R132	033-2211-15	1/16W 220 ohm
R201	117-2201-15	1/8W 22 ohm
R202	117-2201-15	1/8W 22 ohm
R203	033-1041-15	1/16W 100k ohm
R204	033-1041-15	1/16W 100k ohm
R205	033-1041-15	1/16W 100k ohm
R206	033-1041-15	1/16W 100k ohm
R207	033-1041-15	1/16W 100k ohm
R208	033-8231-15	1/16W 82k ohm
R209	033-6811-15	1/16W 680 ohm
R210	033-6831-15	1/16W 68k ohm

REF No.	PART No.	DESCRIPTION
R211	033-1831-15	1/16W 18k ohm
R212	033-2721-15	1/16W 2.7k ohm
R213	033-1011-15	1/16W 100 ohm
R214	033-1021-15	1/16W 1k ohm
R215	033-1031-15	1/16W 10k ohm
R217	033-1041-15	1/16W 100k ohm
R218	033-2211-15	1/16W 220 ohm
R301	117-6811-15	1/8W 680 ohm
R304	033-3921-15	1/16W 3.9k ohm
R305	033-3921-15	1/16W 3.9k ohm
R306	033-1041-15	1/16W 100k ohm
R307	033-2211-15	1/16W 220 ohm
X102	060-1528-90	16.934M

LED PWB section(B4):CD mechanism

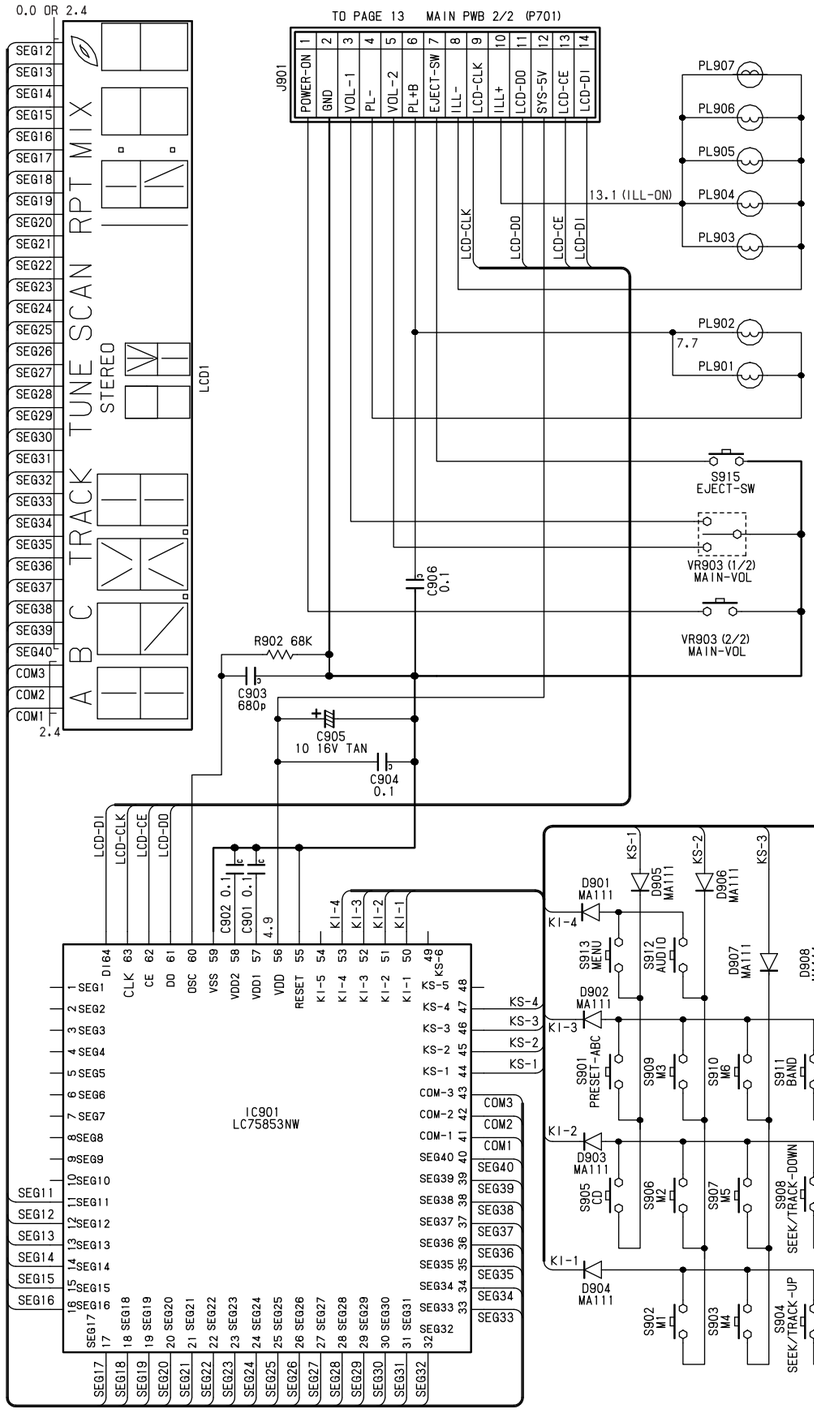
REF No.	PART No.	DESCRIPTION
D1	001-7058-90	AN1105W-RR
D2	001-7058-90	AN1105W-RR
J1	074-1138-60	10P

REF No.	PART No.	DESCRIPTION
Q1	060-4015-90	PS1192H
Q2	060-4015-90	PS1192H
S1	013-7414-50	CHUCKING

REF No.	PART No.	DESCRIPTION
S2	013-7413-50	LIMIT

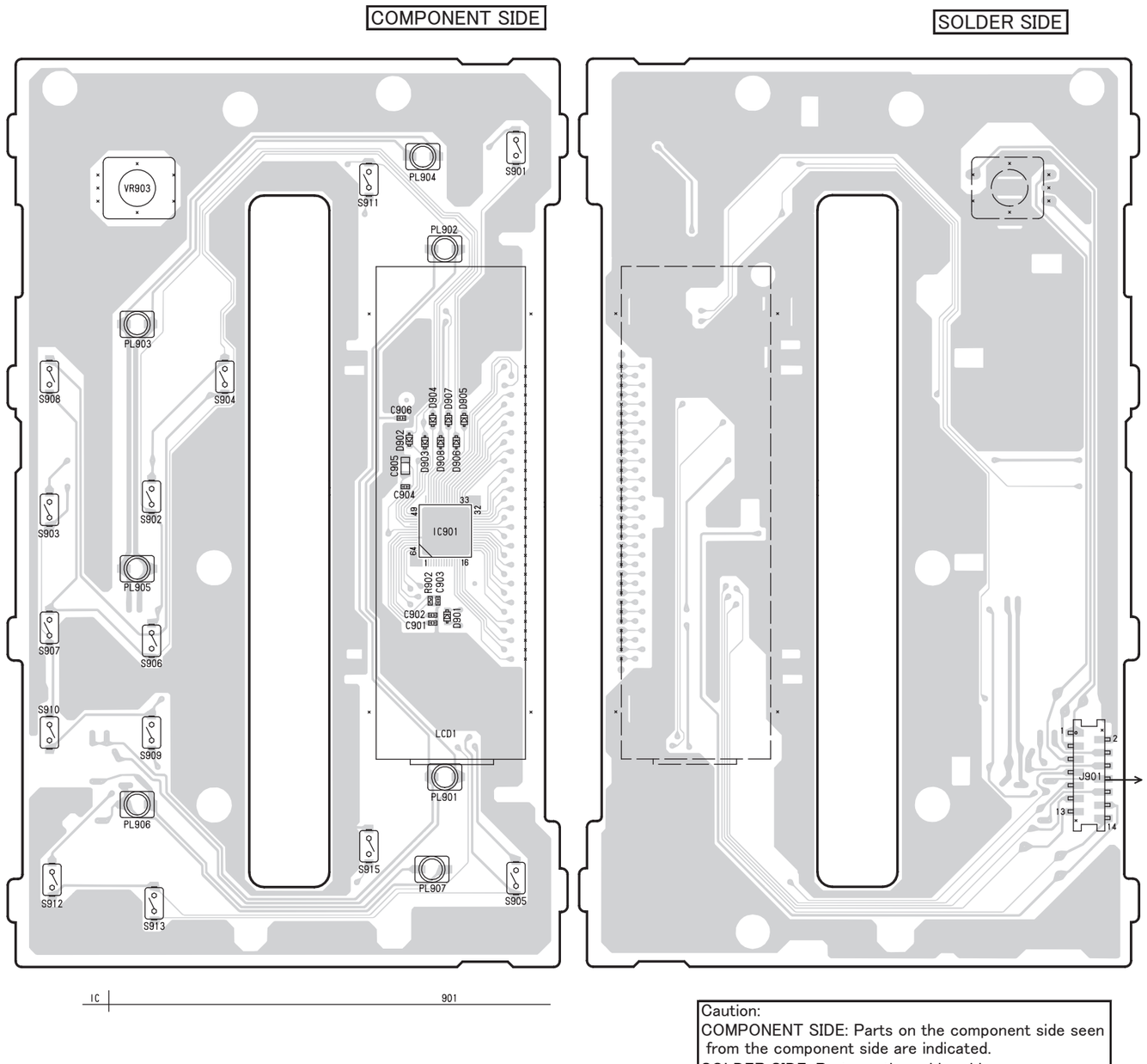
CIRCUIT DIAGRAM

Switch PWB(B2) section



PRINTED WIRING BOARD

Switch PWB(B2) section



Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

PP-2449V-B
PP-2449V-C

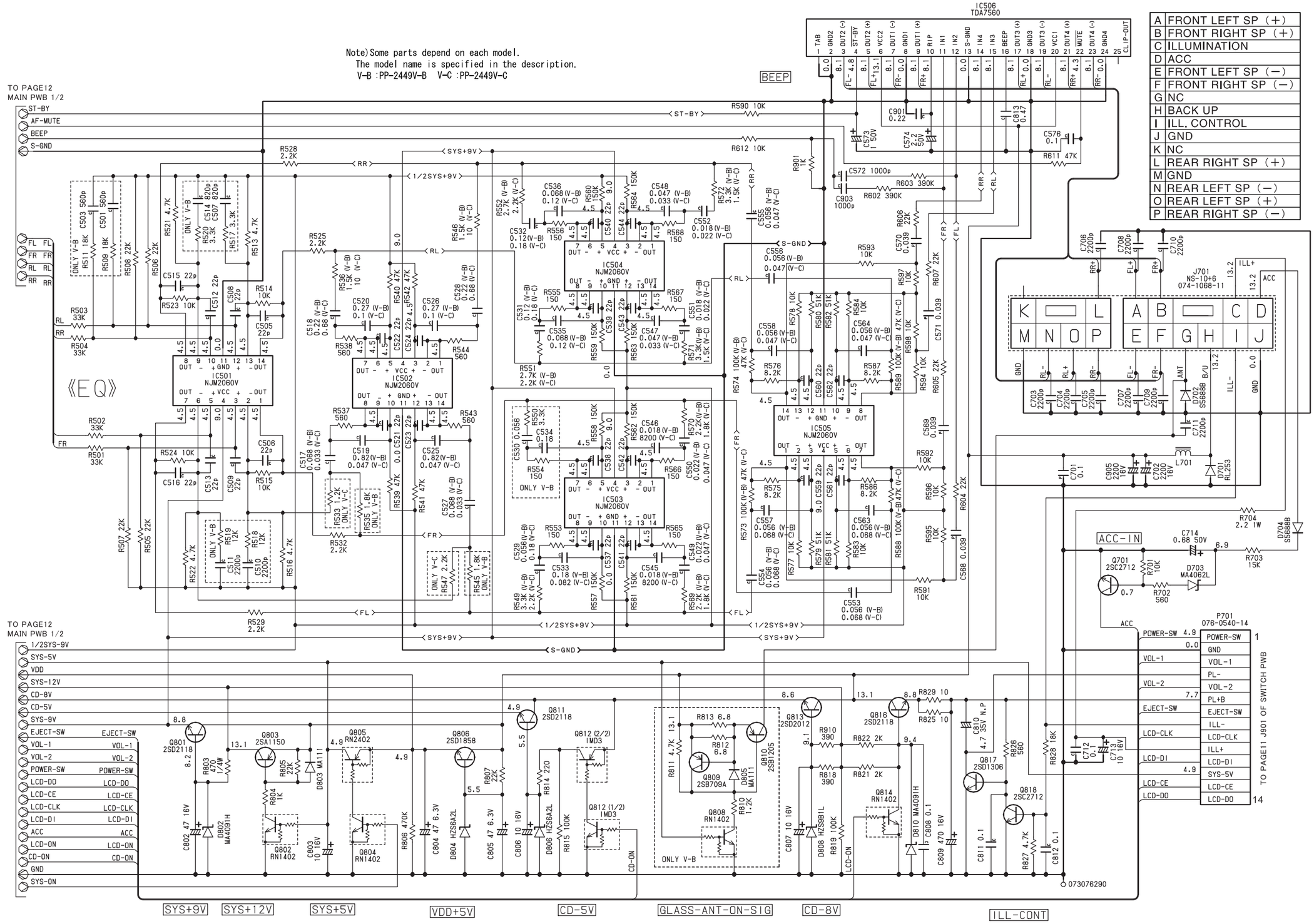
CIRCUIT DIAGRAM

Main PWB(B1) section 1/2

1	AUX ON SIGNAL IN
2	COMBI ON SIG. OUT
3	NC
4	L-ch IN (+)
5	R-ch IN (+)
6	L-ch IN (−)
7	R-ch IN (−)
8	NC

Note)Some parts depend on each model.
The model name is specified in the description.
V-B :PP-2449V-B V-C :PP-2449V-C

PP-2449V-B
PP-2449V-C

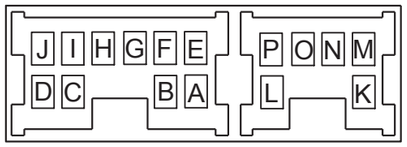

Note)Some parts depend on each model.
The model name is specified in the description.
V-B :PP-2449V-B V-C :PP-2449V-C
A FRONT LEFT SP (+)
B FRONT RIGHT SP (+)
C ILLUMINATION
D ACC
E FRONT LEFT SP (−)
F FRONT RIGHT SP (−)
G NC
H BACK UP
I ILL. CONTROL
J GND
K NC
L REAR RIGHT SP (+)
M GND
N REAR LEFT SP (−)
O REAR LEFT SP (+)
P REAR RIGHT SP (−)
IC506 TDA7560
BEEP
TO PAGE12 MAIN PWB 1/2
ST-BY
AF-MUTE
BEEP
S-GND
FL FL
FR FR
RL RL
RR RR
IC501 NJM2060V
IC502 NJM2060V
IC503 NJM2060V
IC504 NJM2060V
IC505 NJM2060V
《EQ》
J701 NS-10+6 074-1068-11
ILL+
ACC
ACC-IN
P701 076-0540-14
TO PAGE11 J901 OF SWITCH PWB
1/2SYS-9V
SYS-5V
VDD
SYS-12V
CD-8V
CD-5V
SYS-9V
EJECT-SW
VOL-1
VOL-2
POWER-SW
LCD-DO
LCD-CE
LCD-CLK
LCD-DI
ACC
LCD-ON
CD-ON
GND
SYS-ON
SYS+9V
SYS+12V
SYS+5V
VDD+5V
CD-5V
GLASS-ANT-ON-SIG
CD-8V
ILL-CONT
073076290

PRINTED WIRING BOARD

Main PWB(B1) section

1	AUX ON SIGNAL IN
2	COMBI ON SIG. OUT
3	NC
4	L-ch IN (+)
5	R-ch IN (+)
6	L-ch IN (−)
7	R-ch IN (−)
8	NC

AUX SOCKET
8P

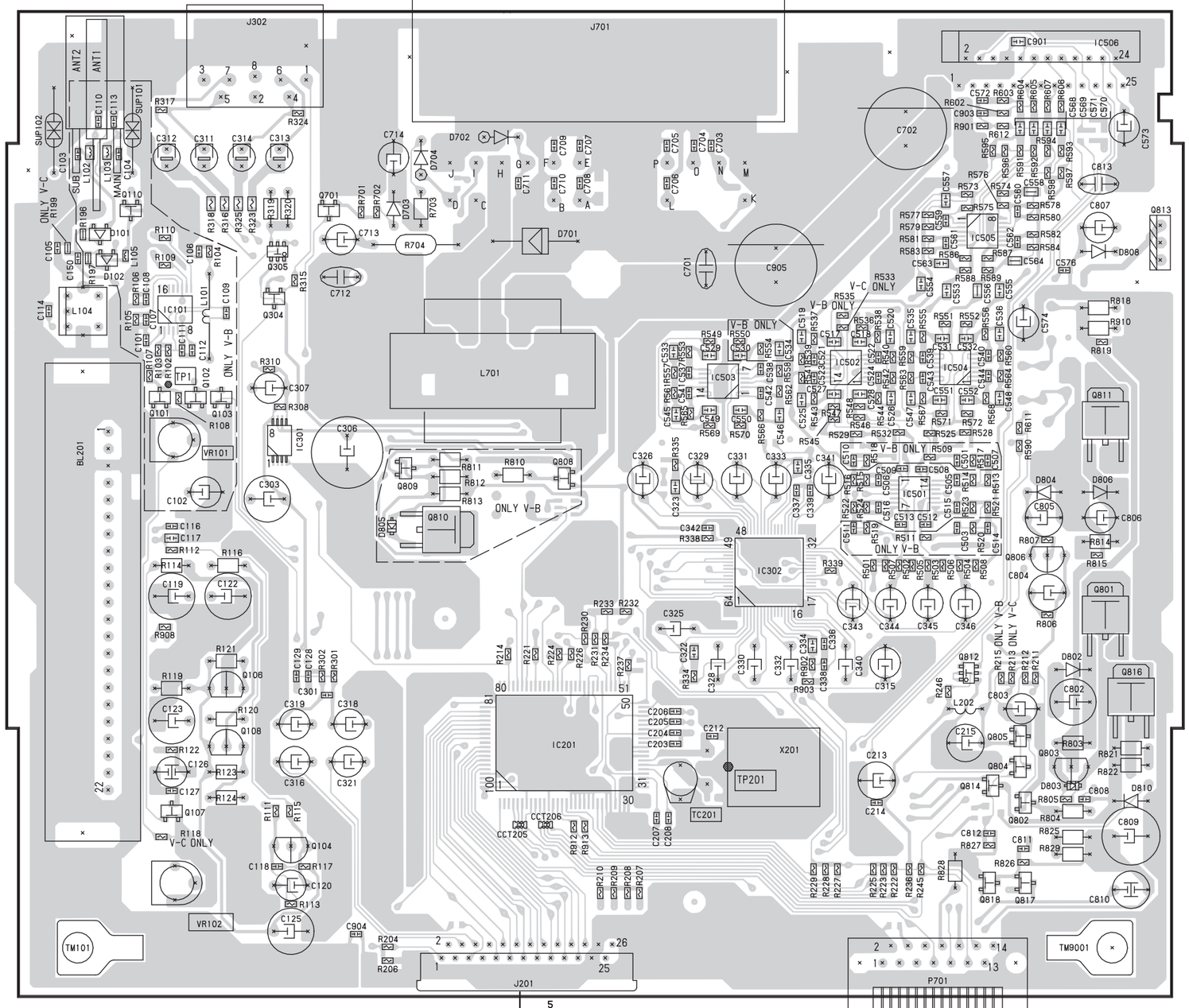


A	FRONT LEFT SP (+)
B	FRONT RIGHT SP (+)
C	ILLUMINATION
D	ACC
E	FRONT LEFT SP (−)
F	FRONT RIGHT SP (−)
G	NC
H	BACK UP

I	ILL. CONTROL
J	GND
K	NC
L	REAR RIGHT SP (+)
M	GND
N	REAR LEFT SP (−)
O	REAR LEFT SP (+)
P	REAR RIGHT SP (−)

COMPONENT SIDE

Q	IC
	506
110	
701	
813	
305	
304	101
	504
	502
102 103	503
101	
811	
	301
809	
808	
	501
810	
	302
801	
812	
106 816	
108 805	
804 803	
814	
107 802	
104	
818 817	



VR101 TP1	VR102
FM-DIV.	NOISE

TC201	TP201
CLOCK	CLOCK

Note)Some parts depend on each model.
The model name is specified in the description.
V-B:PP-2449V-B V-C:PP-2449V-C

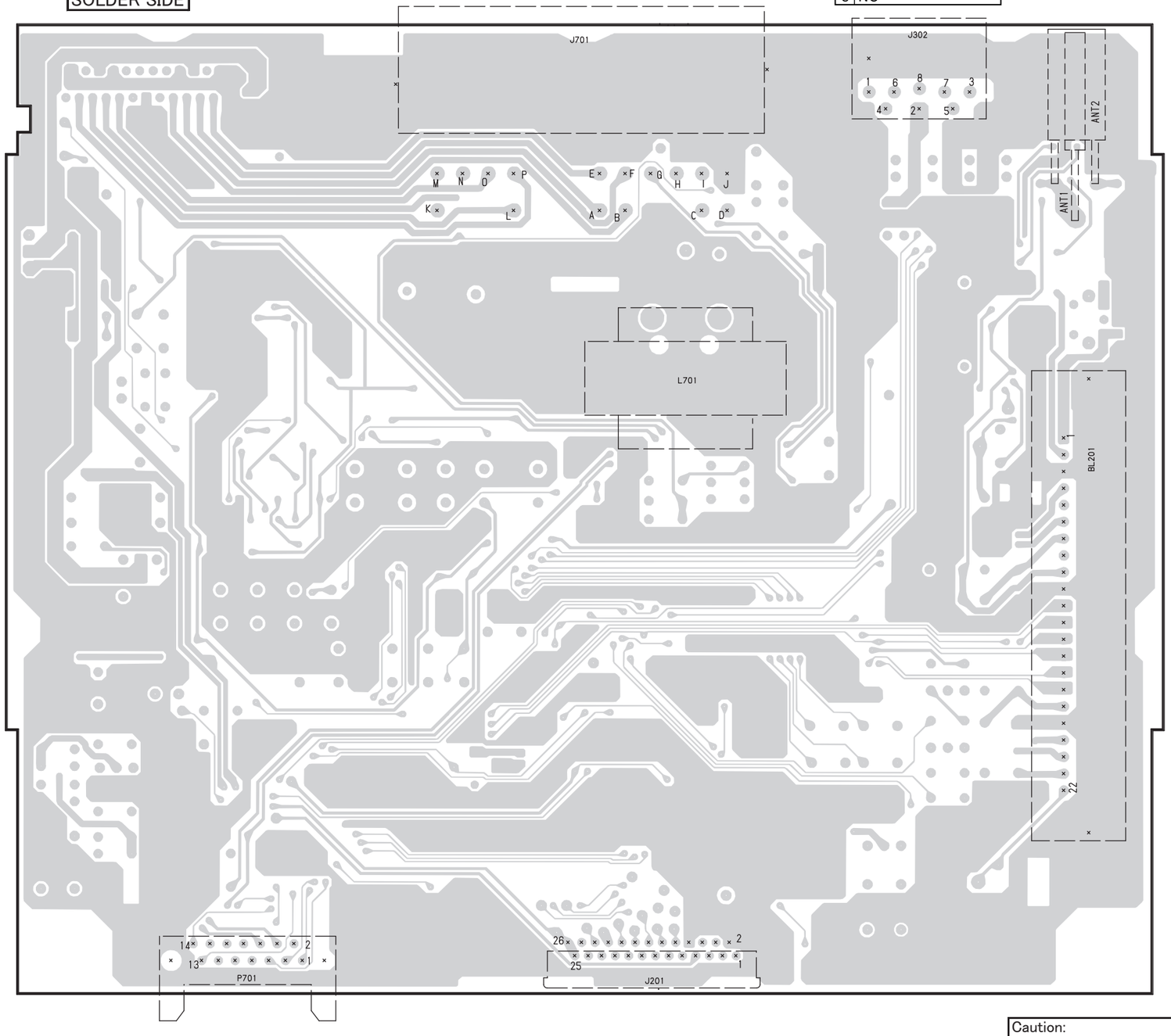
MAIN PWB (B1) section

A	FRONT LEFT SP (+)
B	FRONT RIGHT SP (+)
C	ILLUMINATION
D	ACC
E	FRONT LEFT SP (−)
F	FRONT RIGHT SP (−)
G	NC
H	BACK UP

I	ILL. CONTROL
J	GND
K	NC
L	REAR RIGHT SP (+)
M	GND
N	REAR LEFT SP (−)
O	REAR LEFT SP (+)
P	REAR RIGHT SP (−)

1	AUX ON SIGNAL IN
2	COMBI ON SIG. OUT
3	NC
4	L-ch IN (+)
5	R-ch IN (+)
6	L-ch IN (−)
7	R-ch IN (−)
8	NC

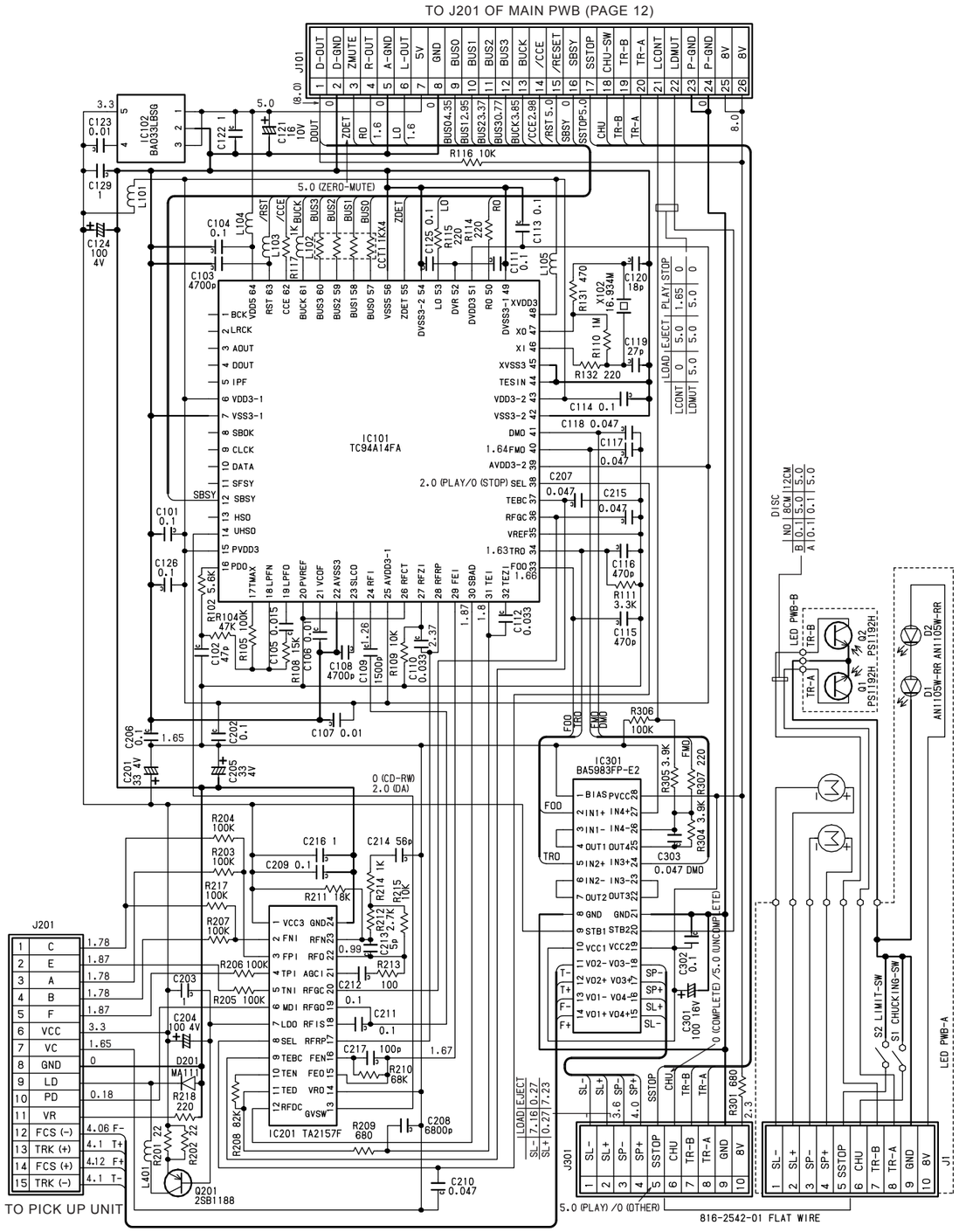
SOLDER SIDE



Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

CIRCUIT DIAGRAM

CD PWB(B3) / LED PWB(B4) section



PRINTED WIRING BOARD

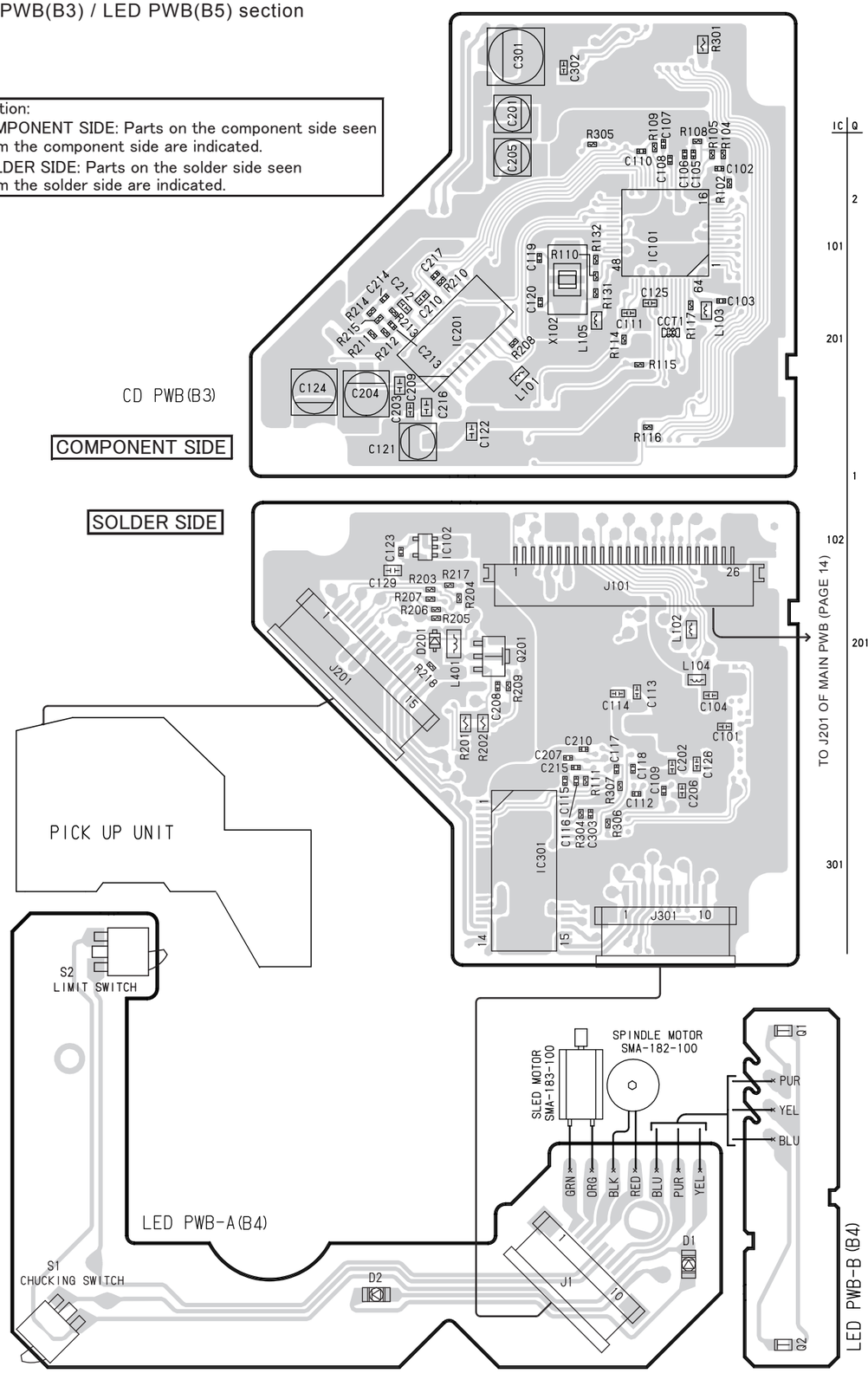
CD PWB(B3) / LED PWB(B5) section

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

CD PWB(B3)

COMPONENT SIDE

SOLDER SIDE



PP-2449V-B
PP-2449V-C